

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application:

Listing of Claims:

1 - 5 (Canceled)

6. (Currently Amended) A method of authorizing transfer of software into an embedded system, comprising the steps of:

obtaining a software identification code (SWID) relating to at least a portion of software information to be downloaded into said embedded system;

obtaining a hardware identification code (HWID) relating to a service/recalibration tool, including ~~The method of claim 1 wherein the step of obtaining said HWID includes:~~ accessing a memory unit of said service/recalibration tool[[;]]; downloading from said memory unit an identifier associated with said service/recalibration tool[[;]], establishing a download number, said download number corresponding to a number of embedded systems authorized to receive said a password protected portion of said software information[[;]], and forming said HWID as a function of said identifier and said download number;

creating a password as a function of said HWID and said SWID; and

downloading said password-protected portion of said software information from said service/recalibration tool into said embedded system based on said password.

7. (Original) The method of claim 6 wherein the step of downloading a password protected portion of said software information further includes:

providing a set of software downloading instructions resident within said service/recalibration tool with said password; and

downloading said password protected portion of said software information from said service/recalibration tool into said embedded system only if said set of software downloading instructions verifies validity of said password.

8. (Original) The method of claim 7 wherein the step of downloading a password protected portion of said software information further includes:

providing said set of software downloading instructions with a counter having a count value initially set to a default value; and

downloading said password protected portion of said software information from said service/recalibration tool into said embedded system and modifying said count value only if an absolute difference between said count value and said default value has not exceeded said download number.

9 (Canceled)

10. (Currently Amended) A method of authorizing transfer of software into an embedded system, comprising the steps of:

obtaining a hardware identification code (HWID) relating to a service/recalibration tool, including accessing a memory unit of said service/recalibration tool, downloading

from said memory unit an identifier associated with said service/recalibration tool, and establishing said HWID as said identifier;

obtaining a software identification code (SWID) relating to at least a portion of software information to be downloaded into said embedded system; ~~The method of claim 9 further including the step of~~

establishing a download number, said download number corresponding to a number of embedded systems authorized to receive said a password protected portion of said software information;

creating a password as a function of said HWID, said SWID ~~and wherein the creating step includes creating said password as a function of said HWID, said SWID and said download number; and~~

downloading said password-protected portion of said software information from said service/recalibration tool into said embedded system based on said password.

11. (Original) The method of claim 10 wherein the step of downloading a password protected portion of said software information further includes:

providing a set of software downloading instructions resident within said service/recalibration tool with said password; and

downloading said password protected portion of said software information from said service/recalibration tool into said embedded system only if said set of software downloading instructions verifies validity of said password.

12. (Original) The method of claim 11 wherein the step of downloading a password protected portion of said software information further includes:

providing said set of software downloading instructions with a counter having a count value initially set to a default value; and

downloading said password protected portion of said software information from said service/recalibration tool into said embedded system and modifying said count value only if an absolute difference between said count value and said default value has not exceeded said download number.

13 - 19 (Canceled)

20. (Currently Amended) A method of authorizing transfer of software into an embedded system, comprising the steps of:

providing a first identifier relating to software transferring hardware and a second identifier relating to software information to be downloaded into an embedded system to a provider of said software information, including ~~The method of claim 16 wherein the providing step includes:~~ obtaining a hardware identification code associated with a service/recalibration tool configured to download said software information into said embedded system~~[[:]]~~, establishing a download number, said download number corresponding to a number of embedded systems authorized to receive said software information~~[[:]]~~, and forming said first identifier as a function of said hardware identification code and said download number;

said software provider creating a password as a function of said first and second identifiers; and

downloading a password protected portion of said software information into said embedded system based on said password.

21. (Original) The method of claim 20 wherein the downloading step further includes:

obtaining said password from said software provider;
providing a set of software downloading instructions with said password; and
downloading said password protected portion of said software information into said embedded system only if said set of software downloading instructions verifies validity of said password.

22. (Original) The method of claim 21 wherein the downloading step further includes:

providing said set of software downloading instructions with a counter having a count value initially set to a default value; and

downloading said password protected portion of said software information into said embedded system and modifying said count value only if an absolute difference between said count value and said default value has not exceeded said download number.

23 (Canceled)

24. (Currently Amended) A method of authorizing transfer of software into an embedded system, comprising the steps of:

providing a first identifier relating to software transferring hardware and a second identifier relating to software information to be downloaded into an embedded system to a provider of said software information, wherein said first identifier is a hardware identification code associated with a service/recalibration tool configured to download said software information into said embedded system;

~~The method of claim 23 further including the step of establishing a download number, said download number corresponding to a number of embedded systems authorized to receive said software information;~~

~~and wherein the step of said software provider creating a password includes said software provider creating said password as a function of said first and second identifiers and also a function of said download number; and~~

downloading a password protected portion of said software information into said embedded system based on said password.

25. (Original) The method of claim 24 wherein the downloading step further includes:

obtaining said password from said software provider;

providing a set of software downloading instructions with said password; and

downloading said password protected portion of said software information into said embedded system only if said set of software downloading instructions verifies validity of said password.

26. (Original) The method of claim 25 wherein the downloading step further includes:

providing said set of software downloading instructions with a counter having a count value initially set to a default value; and

downloading said password protected portion of said software information into said embedded system and modifying said count value only if an absolute difference between said count value and said default value has not exceeded said download number.

27 - 28 (canceled)